

FILE 'ENCOMPPAT' ENTERED AT 15:10 ON 29 MAY 2002  
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FILE COVERS 1964 TO 20 May 2002 (20020520/ED)

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The Indexing Template (TD) field is available for some records starting with 940901/ED. Enter HELP TEMPLATE at an arrow prompt (=>) for information on how to use this field.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s (catalyst (l) nickel (l) molybdenum (l) phosphorus (l) group viia (l) aluminum oxide)/lt
      98483 CATALYST/LT
      21833 NICKEL/LT
      15933 MOLYBDENUM/LT
      16889 PHOSPHORUS/LT
      48834 GROUP VIIA/LT
      28349 ALUMINUM OXIDE/LT
L1      52 (CATALYST (L) NICKEL (L) MOLYBDENUM (L) PHOSPHORUS (L) GROUP
      VIIA (L) ALUMINUM OXIDE)/LT
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```
=> s hydrodesulfurization/ct
L2      3948 HYDRODESULFURIZATION/CT
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=> s l1 and l2
L3      10 L1 AND L2
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=> d 1-10
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L3      ANSWER 1 OF 10  ENCOMPPAT  COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
      INC.
AN      2001:12676  ENCOMPPAT;ENCOMPPAT2
DN      P200118213
TI      Process for the production of low sulfur gas oil fuels by a multi-stage
      catalytic dehydrosulfurization including a stage of partial elimination of
      hydrogen sulfide by stripping
IN      CHAPUS T; MOREL F
PA      INST FRANCAIS DU PETROLE
PI      EP 1123961 20010816
DS      AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;
      MC; MK; NL; PT; RO; SE; SI; TR
AI      EP 2001-400331 20010209
PRAI    FR 2000-2809 20000302
      FR 2000-1811 20000211
OS      DERWENT 2001490834
LA      French
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L3      ANSWER 2 OF 10  ENCOMPPAT  COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
      INC.
AN      2001:3311  ENCOMPPAT;ENCOMPPAT2
DN      P200104740
TI      Hydrotreating of petroleum charges involves using catalyst comprising
      partially amorphous zeolite Y, matrix and a hydro-dehydrogenating element
IN      BENAZZI E; CSERI T; DEVES J M; KASZTELAN S
PA      INST FRANCAIS DU PETROLE
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PI' FR 2793803 20001124  
AI FR 1999-6447 19990519  
PRAI FR 1999-6447 19990519  
OS<sup>v</sup> DERWENT 2001114362

L3 ANSWER 3 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 2000:58 ENCOMPPAT;ENCOMPPAT2  
DN P200000482

TI New bifunctional hydrocracking catalyst comprising an amorphous oxide matrix , a dealuminised zeolite Y, a group VB element and a promoter

IN BENAZZI E; KASZTELAN S; MARCHAL G N

PA INST FRANCAIS DU PETROLE

PI FR 2780310 19991231

AI FR 1998-8043 19980625

PRAI FR 1998-8043 19980625

OS DERWENT 2000100093

L3 ANSWER 4 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 2000:57 ENCOMPPAT;ENCOMPPAT2  
DN P200000481

TI New bifunctional hydrocracking catalysts based on phyllosilicate clays and group VB elements with an amorphous oxide matrix

IN BENAZZI E; KASZTELAN S; MARCHAL G N

PA INST FRANCAIS DU PETROLE

PI FR 2780308 19991231

AI FR 1998-8042 19980625

PRAI FR 1998-8042 19980625

OS DERWENT 2000100092

L3 ANSWER 5 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 1998:9057 ENCOMPPAT;ENCOMPPAT2  
DN 9811742

TI New mixed sulphide catalytic system - comprising sulphur and elements of groups Vb and Vlb useful in the hydro-refining and/or hydrocracking of hydrocarbon charges

IN AFANASSIEV P; ALLALI N; DANOT M; GABORIT V; GEANTET C; KASZTELAN S; MIGNARD S

PA INST FRANCAIS DU PETROLE

PI EP 850688 19980701

DS AL; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV; MC; NL; PT; RO; SE; SI

AI EP 1997-403070 19971217

PRAI FR 1997-2595 19970303

FR 1996-16091 19961227

OS DERWENT 98335120

LA French

L3 ANSWER 6 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 94:11766 ENCOMPPAT;ENCOMPPAT2  
DN 9412803

TI Catalyst for hydrotreating hydrocarbon and method of prepn. - comprises carrier with molybdenum ligand cpd. as active surface component on the carrier and nickel or cobalt cpd

IN KLIMOV O V; STARTSEV A N

PA AS SIBE CATALYSIS INST

PI WO 9421375 940929

DS CA; JP; US; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

AI WO 1993-RU281 931119

PRAI RU 1993-15330 930323

OS DERWENT 94316727

L3 ANSWER 7 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 93:5289 ENCOMPPAT;ENCOMP2  
DN 9311468  
TI Pre-sulphurisation of a new or regenerated catalyst - by addn. of a  
polysulphide and a halogenated or phosphated cpd  
IN BERREBI G  
PA EURECAT EURO RETRAITEMENT CATALYSEURS  
PI FR 2680704 930305  
AI FR 1991-10660 910826  
PRAI FR 1991-10660 910826  
OS DERWENT 93145894

L3 ANSWER 8 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
INC.

AN 81:2005 ENCOMPPAT;ENCOMPPAT2  
DN 8112435  
TI HYDROCARBON HYDROPROCESSING CATALYSTS - COMPRISING HYDROGENATING METAL,  
Y-ZEOLITE AND ALUMINA-ALUMINIUM FLUOROPHOSPHATE  
PA EXXON RESEARCH + ENGINEERING CO  
PI US 4277373 810707  
PRAI US 1979-66940 790816  
OS DERWENT 8154965D

L3 ANSWER 9 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
INC.

AN 79:1418 ENCOMPPAT;ENCOMPPAT2  
DN 7912170  
TI PROCESSING TAR SAND OIL FOR SYNTHETIC CRUDE OIL PREPN. - BY VACUUM  
DISTILLATION AND HYDROPROCESSING OF THE DEASPHALTED VACUUM RESIDUE  
PA SHELL OIL CO  
PI US 4165274 790821  
PRAI US 1978-915332 780613  
OS DERWENT 7966244B

L3 ANSWER 10 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING  
INFORMATION INC.

AN 72:900 ENCOMPPAT;ENCOMPPAT2  
DN 7200212  
TI HYDRODESULPHURISATION OF HEAVY OIL - WITH UPFLOW OF OIL AND HYDROGEN  
THROUGH FIXED BED OF CATALYST  
PA CHEVRON RESEARCH CO  
PI US 3620968 711116  
PRAI US 1968-772365 681031  
OS DERWENT 7178092S

=> s hydrotreating/ct  
L4 9097 HYDROTREATING/CT

=> s l1 and l4  
L5 23 L1 AND L4

=> d 1-23

L5 ANSWER 1 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
INC.

AN 2001:12676 ENCOMPPAT;ENCOMPPAT2  
DN P200118213  
TI Process for the production of low sulfur gas oil fuels by a multi-stage  
catalytic dehydrosulfurization including a stage of partial elimination of  
hydrogen sulfide by stripping  
IN CHAPUS T; MOREL F  
PA INST FRANCAIS DU PETROLE  
PI EP 1123961 20010816  
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;  
MC; MK; NL; PT; RO; SE; SI; TR  
AI EP 2001-400331 20010209  
PRAI FR 2000-2809 20000302

FR 2000-1811 20000211  
 OS DERWENT 2001490834  
 LA French

L5 ANSWER 2 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
 INC.  
 AN 2001:3311 ENCOMPAT;ENCOMPAT2  
 DN P200104740  
 TI Hydrorefining of petroleum charges involves using catalyst comprising  
 partially amorphous zeolite Y, matrix and a hydro-dehydrogenating element  
 IN BENAZZI E; CSERI T; DEVES J M; KASZTELAN S  
 PA INST FRANCAIS DU PETROLE  
 PI FR 2793803 20001124  
 AI FR 1999-6447 19990519  
 PRAI FR 1999-6447 19990519  
 OS DERWENT 2001114362

L5 ANSWER 3 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
 INC.  
 AN 2000:7251 ENCOMPAT;ENCOMPAT2  
 DN P200013255  
 TI Microporous oxide material with micro- and meso-porous properties and  
 specific structure, for use in catalysis, is prepared by synthesis of gel,  
 hydrothermal treatment, and treatment with organic compound with proton  
 acceptor group  
 IN CHICA LARA A; CORMA CANOS A; DIAZ MORALES U; FORNES SEGUI V  
 PA CONSEJO SUPERIOR INVESTIGACIONES CIENTIF; UNIV VALENCIA POLITECNICA  
 PI WO 2000024673 20000504  
 DS BR; CA; CN; JP; MX; NO; US; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR;  
 IE; IT; LU; MC; NL; PT; SE  
 AI WO 1999-ES344 19991026  
 PRAI ES 1998-2283 19981027  
 OS DERWENT 2000350648  
 LA Spanish

L5 ANSWER 4 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
 INC.  
 AN 2000:58 ENCOMPAT;ENCOMPAT2  
 DN P200000482  
 TI New bifunctional hydrocracking catalyst comprising an amorphous oxide  
 matrix , a dealuminised zeolite Y, a group VB element and a promoter  
 IN BENAZZI E; KASZTELAN S; MARCHAL G N  
 PA INST FRANCAIS DU PETROLE  
 PI FR 2780310 19991231  
 AI FR 1998-8043 19980625  
 PRAI FR 1998-8043 19980625  
 OS DERWENT 2000100093

L5 ANSWER 5 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
 INC.  
 AN 2000:57 ENCOMPAT;ENCOMPAT2  
 DN P200000481  
 TI New bifunctional hydrocracking catalysts based on phyllosilicate clays and  
 group VB elements with an amorphous oxide matrix  
 IN BENAZZI E; KASZTELAN S; MARCHAL G N  
 PA INST FRANCAIS DU PETROLE  
 PI FR 2780308 19991231  
 AI FR 1998-8042 19980625  
 PRAI FR 1998-8042 19980625  
 OS DERWENT 2000100092

L5 ANSWER 6 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
 INC.  
 AN 1999:10939 ENCOMPAT;ENCOMPAT2  
 DN 9912558  
 TI Hydrocracking of hydrocarbons feeds using zeolite-based catalyst  
 IN BENAZZI E; GEORGE-MARCHAL N; KASZTELAN S

PA' INST FRANCAIS DU PETROLE  
PI EP 939113 19990901  
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;  
J MC; MK; NL; PT; RO; SE; SI  
AI EP 1999-400447 19990224  
PRAI FR 1998-2442 19980227  
FR 1998-2312 19980226  
OS DERWENT 99471047  
LA French

L5 ANSWER 7 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
INC.  
AN 1999:10918 ENCOMPPAT;ENCOMPPAT2  
DN 9912504  
TI Zeolite NU-88 based catalyst for hydroconversion of hydrocarbon feeds  
IN BENAZZI E; DIEHL F; KASZTELAN S; MARCHAL-GEORGE N  
PA INST FRANCAIS DU PETROLE  
PI EP 937683 19990825  
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;  
MC; MK; NL; PT; RO; SE; SI  
AI EP 1999-400374 19990216  
PRAI FR 1998-2102 19980220  
OS DERWENT 99460701  
LA French

L5 ANSWER 8 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
INC.  
AN 1999:5601 ENCOMPPAT;ENCOMPPAT2  
DN 9911291  
TI Cross-linked dioctahedral 2:1 phyllosilicates with large interfolial  
spaces containing oxide inclusions  
IN BARON J; BENAZZI E; BRENDLE J; GEORGE-MARCHAL N; LACOMBE S; LE DRED R;  
SAEHR D  
PA INST FRANCAIS DU PETROLE  
PI EP 908233 19990414  
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;  
MC; MK; NL; PT; RO; SE; SI  
AI EP 1998-402522 19981012  
PRAI FR 1997-12864 19971013  
FR 1997-12865 19971013  
OS DERWENT 99216939  
LA French

L5 ANSWER 9 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION  
INC.  
AN 1998:9057 ENCOMPPAT;ENCOMPPAT2  
DN 9811742  
TI New mixed sulphide catalytic system - comprising sulphur and elements of  
groups Vb and VIb useful in the hydro-refining and/or hydrocracking of  
hydrocarbon charges  
IN AFANASSIEV P; ALLALI N; DANOT M; GABORIT V; GEANTET C; KASZTELAN S;  
MIGNARD S  
PA INST FRANCAIS DU PETROLE  
PI EP 850688 19980701  
DS AL; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV; MC;  
NL; PT; RO; SE; SI  
AI EP 1997-403070 19971217  
PRAI FR 1997-2595 19970303  
FR 1996-16091 19961227  
OS DERWENT 98335120  
LA French

L5 ANSWER 10 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 1998:6944 ENCOMPPAT;ENCOMPPAT2  
DN 9811466  
TI Catalyst with an element of group VIIB for hydrotreating - contains a

matrix, a metal from group IIB, an element from phosphorus, boron, or silicon and a hydro-dehydrogenating metal chosen from molybdenum and tungsten

IN KASZTELAN S; MIGNARD S; QUARTARARO J

PA INST FRANCAIS DU PETROLE

PI WO 9819791 19980514

DS JP; KR; MX; US; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

AI WO 1997-FR2005 19971107

PRAI FR 1996-13573 19961107

OS DERWENT 98286667

LA French

L5 ANSWER 11 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 95:1692 ENCOMPPAT;ENCOMPPAT2

DN 9510452

TI Hydrocracking process - with a catalyst comprising hydrogenation component, zeolite beta and a pillared clay.

IN OCCELLI M L

PA UNION OIL CO CALIFORNIA

PI US 5374349 941220

AI US 1991-757837 910911

PRAI US 1991-757837 910911

OS DERWENT 95035594

L5 ANSWER 12 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 94:11766 ENCOMPPAT;ENCOMPPAT2

DN 9412803

TI Catalyst for hydrotreating hydrocarbon and method of prepn. - comprises carrier with molybdenum ligand cpd. as active surface component on the carrier and nickel or cobalt cpd

IN KLIMOV O V; STARTSEV A N

PA AS SIBE CATALYSIS INST

PI WO 9421375 940929

DS CA; JP; US; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

AI WO 1993-RU281 931119

PRAI RU 1993-15330 930323

OS DERWENT 94316727

L5 ANSWER 13 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 93:8639 ENCOMPPAT;ENCOMPPAT2

DN 9312250

TI Gallium phosphate based catalysts used in hydro-refining processes - contains at least one matrix, a microporous crystallised gallium phosphate cpd., a zeolite a gp-VI or gp-VIII metal and one of phosphorus, silicon, bismuth or fluorine

IN GUTH J; KASZTELAN S; KESSLER H; MIGNARD S

PA INST FRANCAIS DU PETROLE

PI EP 556108 930818

DS BE; DE; ES; GB; IT; NL

AI EP 1993-400310 930208

PRAI FR 1992-1662 920212

OS DERWENT 93260348

LA French

L5 ANSWER 14 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 93:5289 ENCOMPPAT;ENCOMPPAT2

DN 9311468

TI Pre-sulphurisation of a new or regenerated catalyst - by addn. of a polysulphide and a halogenated or phosphated cpd

IN BERREBI G

PA EURECAT EURO RETRAITEMENT CATALYSEURS

PI FR 2680704 930305

PI JP 53127391 781107  
PRAI JP 1977-42043 770414  
OS DERWENT 7890244A

L5 ANSWER 21 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 72:2357 ENCOMPPAT;ENCOMPPAT2  
DN 7201523S  
TI SULPHIDING HYDROGENATION CATALYSTS - IN MULTI-STAGE HYDROGENATIONS  
PA SHELL INTERNATIONALE RESEARCH MAATSC  
PI BE 770713 720131  
PRAI GB 1970-46045 700928  
OS DERWENT 7211040T

L5 ANSWER 22 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 72:1667 ENCOMPPAT;ENCOMPPAT2  
DN 7200854  
TI HYDROCRACKING HEAVY PETROLEUM FEEDS OF CONTROLLED NITROGEN CONTENT  
PA SHELL INTERNATIONALE RESEARCH MAATSC  
PI NL 7113221 711227  
PRAI NL 1971-13221 710924  
OS DERWENT 7203912T

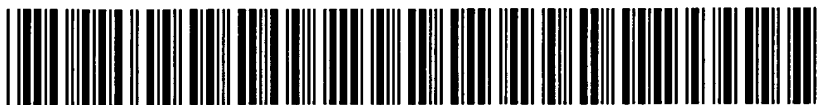
L5 ANSWER 23 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING  
INFORMATION INC.  
AN 72:900 ENCOMPPAT;ENCOMPPAT2  
DN 7200212  
TI HYDRODESULPHURISATION OF HEAVY OIL - WITH UPFLOW OF OIL AND HYDROGEN  
THROUGH FIXED BED OF CATALYST  
PA CHEVRON RESEARCH CO  
PI US 3620968 711116  
PRAI US 1968-772365 681031  
OS DERWENT 7178092S

=> d ab 20

L5 ANSWER 20 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING  
INFORMATION INC.

=> d ab 10

L5 ANSWER 10 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING  
INFORMATION INC.  
AB A catalyst with an element of group VIIB for hydrotreating is claimed. It  
contains a matrix, a metal from group VIIB, an element from phosphorus,  
boron, or silicon and a hydro-dehydrogenating metal chosen from molybdenum  
and tungsten. It also contains fluorine, an element from group VIIA. USE  
- For transformation of hydrocarbon feed such as oil, oil under vacuum,  
paraffin oil and hydrotreating. (17pp Dwg.No.0/0)



Creation date: 01-28-2004  
Indexing Officer: KNANCE - KERMIT NANCE  
Team: OIPEBackFileIndexing  
Dossier: 09780418

Legal Date: 06-04-2002

No.	Doccode	Number of pages
1	CTNF	8
2	892	1
3	1449	1

Total number of pages: 10

Remarks:

Order of re-scan issued on .....